



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sheu, *et al.* Docket No.: TSM03-0140  
Serial No.: 10/619,828 Art Unit: 2829  
Filed: July 15, 2003 Examiner: Dana Farahani  
For: Self-Aligned MOSFET having an Oxide Region below the Channel

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

### INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants wish to bring to the attention of the U.S. Patent and Trademark Office the information noted on the enclosed PTO Form PTO/SB/08A & 08B, which may be considered material to the examination of the above-identified application.

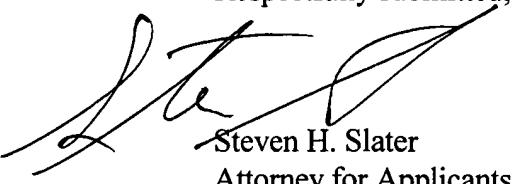
This Information Disclosure Statement is submitted under 37 C.F.R. §1.97(c) together with a \$180.00 fee under 37 C.F.R. §1.17(p) after the C.F.R. §1.97(b) time period, but before final action or notice of allowance, whichever occurs first.

Please charge the required fee of \$180.00 and any additional amount, or credit any overpayment to Deposit Acct. No 50-1065 of the below mentioned firm.

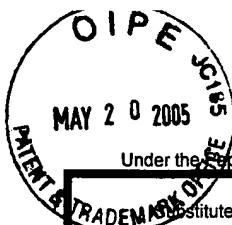
05/20/2005 NNGUYEN1 00000051 501065 10619828  
01 FC:1806 180.00 DA

May 16, 2005

Respectfully submitted,

  
Steven H. Slater  
Attorney for Applicants  
Reg. No. 35,361

Slater & Matsil, L.L.P.  
17950 Preston Road, Suite 1000  
Dallas, Texas 75252  
Tel: (972) 732-1001  
Fax: (972) 732-9218



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

2

### Complete if Known

Application Number	10/619,828
Filing Date	7/15/2003
First Named Inventor	Sheu, et al.
Art Unit	2829
Examiner Name	Farahani, Dana

Attorney Docket Number TSM03-0140

### U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
	1	US-4,069,094	01-17-1978	Shaw et al.	
	2	US-4,497,683	02-05-1985	Celler et al.	
	3	US-5,155,571	10-13-1992	Wang et al.	
	4	US-5,378,919	01-03-1995	Ochiai	
	5	US-5,479,033	12-26-1995	Baca et al.	
	6	US-5,789,807	08-04-1998	Correale Jr.	
	7	US-6,111,267	08-29-2000	Fischer et al.	
	8	US-6,256,239 B1	07-03-2001	Akita et al.	
	9	US-6,339,232 B1	01-15-2002	Takagi	
	10	US-6,407,406 B1	06-18-2002	Tezuka	
	11	US-6,475,869 B1	11-05-2002	Yu	
	12	US-6,518,610 B2	02-11-2003	Yang et al.	
	13	US-6,525,403 B2	02-25-2003	Inaba et al.	
	14	US-6,573,172 B1	06-03-2003	En et al.	
	15	US-6,576,526 B2	06-10-2003	Kai et al.	
	16	US-6,600,170 B1	07-29-2003	Xiang	
	17	US-6,657,276 B1	12-02-2003	Karlsson et al.	
	18	US-6,720,619 B1	04-13-2004	Chen et al.	
	19	US-6,724,019 B2	04-20-2004	Oda et al.	
	20	US-6,759,717 B2	07-06-2004	Sagarwala et al.	
	21	US-6,762,448 B1	07-13-2004	Lin et al.	
	22	US-6,794,764 B1	09-21-2004	Kamal et al.	
	23	US-6,803,641 B2	10-12-2004	Papa Rao et al.	
	29	US-5,273,915	12-28-1993	Hwang et al.	
	30	US-5,338,960	08-16-1994	Beasom	
	31	US-5,656,524	08-12-1997	Eklund et al.	
	32	US-6,100,153	08-08-2000	Nowak et al.	
	33	US-6,281,059	08-28-2001	Cheng et al.	
	34	US-6,586,311	07-01-2003	Wu	
	35	US-6,686,247	02-03-2004	Bohr	
	36	US-5,708,288	01-13-1998	Quigley et al.	
	37	US-5,955,766	09-21-1999	Ibi et al.	
	38	US-6,521,952	02-18-2003	Ker et al.	
	39	US-6,617,643	09-09-2003	Goodwin-Johansson	
	40	US-6,633,070 B2	10-14-2003	Miura et al.	
	41	US-6,784,101	08-31-2004	Yu et al.	
	42	US-2005/0029601 A1	02-10-2005	Chen et al.	
	43	US-2002/0031890 A1	03-14-2002	Watanabe et al.	
	44	US-2002/0074598 A1	06-20-2002	Doyle et al.	
	45	US-2002/0125471 A1	09-12-2002	Fitzgerald et al.	
	46	US-2004/0026765 A1	02-12-2004	Currie et al.	
	47	US-2004/0173815 A1	09-09-2004	Yeo et al.	

Examiner Signature	Date Considered
--------------------	-----------------

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.**

Substitute for form 1449A/PTO				<i>Complete if Known</i>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	10/619,828
				Filing Date	7/15/2003
				First Named Inventor	Sheu, et al.
				Art Unit	2829
				Examiner Name	Farahani, Dana
Sheet	2	of	2	Attorney Docket Number	TSM03-0140

## FOREIGN PATENT DOCUMENTS

## **NON-PATENT LITERATURE DOCUMENTS**

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	50	LEITZ, C.W., et al., "Channel Engineering of SiGe-Based Heterostructures for High Mobility MOSFETs," Materials Research Society Symposium Proceedings, Vol. 686, 2002, pp. A3.10.1-A3.10.6.	
	51	LEITZ, C.W., et al., "Hole Mobility Enhancements In Strained Si/Si <sub>1-y</sub> Ge, P-Type Metal-Oxide-Semiconductor Field-Effect Transistors Grown On Relaxed Si <sub>1-x</sub> Ge <sub>x</sub> (x<y) Virtual Substrates," Applied Physics Letters, Vol. 79, No. 25, December 17, 2001, pp. 4246-4248.	
	52	LIU, K.C., et al., "A Novel Sidewall Strained-Si Channel nMOSFET," IEDM, 1999, pp. 63-66.	

<b>Examiner Signature</b>		<b>Date Considered</b>	
-------------------------------	--	----------------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **\*Applicant's unique citation designation number (optional).** <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.